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yet been perfected. It might be of value in telling whether such milk had become old before it was pasteurized, since such would show large numbers of dead bacteria by the microscopic method, though it might show small numbers by the plate method.

19. The direct microscopical method of bacteriological analysis might be of exceptional value applied at the dairy to guide the dairyman as to the general grade of the milk he is marketing. It may also be of great aid to the large dealer to enable him to determine promptly whether he is purchasing milk of A, B, or C grade. The possibility of quick results and ease of making the smears at the dairy or shipping station, subsequently sending them to the laboratory for microscopic examination, renders the method especially applicable at the dairy end of the line.

PLAGUE-PREVENTION WORK.

CALIFORNIA.

The following report of plague-prevention work in California for the week ended July 24, 1915, was received from Passed Asst. Surg. Hurley, of the United States Public Health Service, in temporary charge of the work:

SAN FRANCISCO, CAL.		SAN FRANCISCO, CAL.—Continued.	
RAT PROOFING.		RAT PROOFING—continued.	
New buildings:		Old buildings—Continued.	
Inspections of work under construction..	213	Concrete floors installed (square feet, 42,775).....	36
Basements concreted (square feet, 18,056)	25	Basements concreted (square feet, 7,370).....	15
Floors concreted (square feet, 4,190)....	7	Yards and passageways, etc., concreted (square feet, 13,638).....	33
Yards, passageways, etc. (square feet, 8,470).....	53	Total area concrete laid, square feet....	63,783
Total area of concrete laid, square feet..	30,716	Floors rat proofed with wire cloth (square feet, 2,516).....	6
Class A, B, and C (fireproof) buildings:		Buildings razed.....	9
Inspections made.....	203	New garbage cans stamped approved.....	722
Roof and basement ventilators, etc., screened.....	5,205	Nuisances abated.....	213
Wire screening used, square feet.....	25,410	OPERATIONS ON THE WATER FRONT.	
Openings around pipes, etc., closed with cement.....	8,593	Vessels inspected for rat guards (times)....	22
Sidewalk lens lights replaced.....	1,540	Reinspections made on vessels.....	28
Old buildings:		New rat guards procured.....	8
Inspections made.....	241	Defective rat guards repaired.....	10
Wooden floors removed.....	15	Vessels on which cargo was inspected.....	1
Yards and passageways, planking removed.....	4		
Cubic feet new foundation walls installed.....	3,055		

Amount of cargo and description of same.	Condi- tion.	Rat evi- dence.
Steamer President from Seattle:		
162 cases salmon, candy, ham, and household goods.....	O. K.....	None.
300 sacks flour and rice.....	O. K.....	None.

Rats trapped on wharves and water front..	31
Rats trapped on vessels.....	30
Traps sets on wharves and water front.....	161
Traps set on vessels.....	60
Vessels trapped on.....	9
Poisons placed on water front.....pieces..	3,600
Poisons placed within Panama-Pacific International Exposition grounds.....pieces..	7,200
Bait used on water front and vessels—bacon.....pounds..	6
Amount of bread used in poisoning water front.....loaves..	12
Pounds of poison used on water front.....	6

RATS COLLECTED AND EXAMINED FOR PLAGUE.	
San Francisco:	
Collected.....	352
Examined.....	267
Found infected.....	None.
Contra Costa County:	
Trapped.....	3
Examined.....	3
Found infected.....	None.

SQUIRRELS COLLECTED AND EXAMINED FOR PLAGUE.	
Contra Costa County.....	888
Alameda County.....	331

SQUIRRELS COLLECTED AND EXAMINED FOR PLAGUE—Continued.	
San Benito County.....	266
Monterey County.....	116
Stanislaus County.....	14
Total.....	1,615
Examined.....	1,615
Found infected.....	1

RANCHES INSPECTED AND HUNTED OVER.	
Contra Costa County.....	106
Alameda County.....	59
Stanislaus County.....	3
San Benito County.....	31
Monterey County.....	20
Total.....	219

POSITIVE CASE—HUMAN PLAGUE.

Contra Costa County: N. G.; male; age, 21 years; nativity, Greece. Sickened July 13, 1915, at Concord, Contra Costa County, Cal.; died July 21, 1915. Verified bacteriologically July 23, 1915.

PLAGUE-INFECTED SQUIRREL.

San Benito County: Shot July 10, 1915, D. J. Watson ranch (Rancho San Justo), 7 miles southwest of Hollister, 1 squirrel.

Record of plague infection.

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number rodents found infected since May, 1907.
Cities:				
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	None.....	398 rats.
Oakland.....	Aug. 9, 1911	Dec. 1, 1908	do.....	126 rats.
Berkeley.....	Aug. 28, 1907	None.....	do.....	None.
Los Angeles.....	Aug. 11, 1908	do.....	Aug. 21, 1908	1 squirrel.
Counties:				
Alameda (exclusive of Oakland and Berkeley).....	Sept. 24, 1909	Oct. 17, 1909	Aug. 7, 1914	286 squirrels; 1 wood rat.
Contra Costa.....	July 13, 1915	None.....	July 1, 1915	1,572 squirrels.
Fresno.....	None.....	do.....	Oct. 27, 1911	1 squirrel.
Merced.....	do.....	do.....	July 12, 1911	5 squirrels.
Monterey.....	do.....	do.....	Apr. 10, 1914	6 squirrels.
San Benito.....	June 4, 1913	do.....	July 10, 1915	43 squirrels.
San Joaquin.....	Sept. 18, 1911	do.....	Aug. 23, 1911	18 squirrels.
San Luis Obispo.....	None.....	do.....	Jan. 29, 1910	1 squirrel.
Santa Clara.....	Aug. 31, 1910	do.....	July 23, 1913	25 squirrels.
Santa Cruz.....	None.....	do.....	May 17, 1910	3 squirrels.
Stanislaus.....	do.....	do.....	June 2, 1911	13 squirrels.

The work is being carried on in the following-named counties: Alameda, Contra Costa, San Francisco, Stanislaus, San Benito, and Monterey.

LOUISIANA—NEW ORLEANS—PLAGUE ERADICATION.

The following report of plague-eradication work at New Orleans for the week ended July 31, 1915, was received from Passed Asst. Surg. Simpson, of the United States Public Health Service, in temporary charge of the work:

OUTGOING QUARANTINE.

Vessels fumigated with sulphur.....	14
Vessels fumigated with carbon monoxide....	14
Vessels fumigated with hydrocyanic gas.....	2
Pounds of sulphur used.....	3,040
Pounds of coke consumed in carbon monoxide fumigation.....	19,600
Pounds of potassium cyanide used in hydrocyanic gas fumigation.....	152
Pounds of sodium carbonate used in hydrocyanic gas fumigation.....	200
Pounds of sulphuric acid used in hydrocyanic gas fumigation.....	154
Clean bills of health issued.....	33
Foul bills of health issued.....	3

FIELD OPERATIONS.

Rats trapped.....	5,661
Number of premises inspected.....	11,131
Notices served.....	3,489
Garbage cans installed.....	301

BUILDINGS RAT PROOFED.

By elevation.....	152
By marginal concrete wall.....	155
By concrete floor and wall.....	108
By minor repairs.....	235
Square yards of concrete laid.....	13,028
Total buildings rat proofed.....	650
Lots and sheds, planking removed.....	86
Buildings demolished.....	48
Total buildings rat proofed to date (abated).....	92,348

LABORATORY OPERATIONS.

Rodents received by species:	
Mus rattus.....	100
Mus norvegicus.....	1,488
Mus alexandrinus.....	77
Mus musculus.....	3,977
Wood rats.....	41
Musk rats.....	51
Putrid (included in enumeration of species).....	54
Total rodents received at laboratory.....	5,734
Rodents examined.....	1,947
Suspicious rats.....	3
Plague rats confirmed.....	None.
Last case of human plague, October 4, 1914.	
Last case of rodent plague, July 20, 1915.	
Total rodents captured to July 31.....	402,420
Total rodents examined to July 31.....	273,171
Total cases of rodent plague to July 31, by species:	
Mus musculus.....	4
Mus rattus.....	16
Mus norvegicus.....	218
Mus alexandrinus.....	8
Total rodent cases to July 31, 1915.....	246